

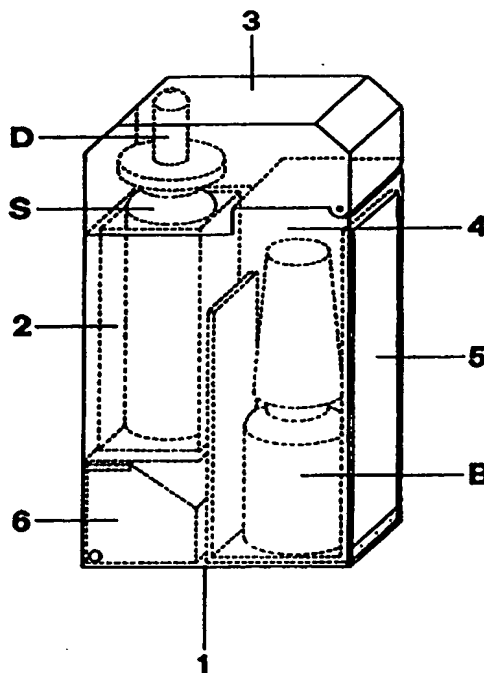
**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>A61J 1/00, A45C 11/00</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 98/51257</b> <b>(43) International Publication Date:</b> 19 November 1998 (19.11.98)
<b>(21) International Application Number:</b> PCT/IT98/00072 <b>(22) International Filing Date:</b> 30 March 1998 (30.03.98)  <b>(30) Priority Data:</b> CA97A000014 9 May 1997 (09.05.97) IT CA97U000003 12 June 1997 (12.06.97) IT  <b>(71)(72) Applicant and Inventor:</b> VARGIU, Paolo [IT/IT]; Via Grazia Deledda, 21 B, I-09048 Sinnai (IT).  <b>(74) Agent:</b> MASCIOLI, Alessandro; Via Urbana, 20, I-00184 Roma (IT).	<b>(81) Designated States:</b> JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i>	

**(54) Title:** A MULTI-CONTAINER DEVICE FOR THE POCKET TRANSPORT OF ANTI-ALLERGIC MEDICINE**(57) Abstract**

The multi-container device (1) according to the present invention, for the pocket transport of anti-allergic medicine, comprises a plurality of shaped and separated housings (2, 4, 6, 10), each provided with its own access and safety closing means (3, 5, 8) for the medicines to be used, in a disposition that makes the transport encumbrance as little as possible.



**FOR THE PURPOSES OF INFORMATION ONLY**

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

## "A MULTI-CONTAINER DEVICE FOR THE POCKET TRANSPORT OF ANTI-ALLERGIC MEDICINE"

The present invention concerns a multi-container device for the pocket transport of anti-allergic medicine to be taken by mouth and/or for external use.

It is known that patients suffering from allergies are forced - according to the seasons or the places in which they are living - to carry about different packings of medicines like, e.g., eye drops against a strong lacrimation, a nose spray or inhaler for breathing fits and antihistaminic tablets for modulating both troubles at a systemic level.

It is the aim of the present invention to eliminate the inconveniences deriving from the difficulty of finding in a very short time in a bag or in a pocket the specific medicine for contrasting the first symptoms of the allergy.

The art doesn't know, at present, a single container that may be carried about by the patients and that may contain all medicines of above described kind, allowing an easy and practical use thereof.

The aim set forth is reached by means of the multi-container according to the present invention, comprising a

plurality of shaped and separated housings, each provided with its own access and safety closing means for the medicines to be used, in a disposition that makes the transport encumbrance as little as possible.

The advantage of the device according to the present invention is evident.

The device according to the present invention will be described in detail hereinbelow relating to the enclosed drawings, in which some embodiments are shown.

Figure 1 shows an axonometric and transparent view of a multi-container device according to the present invention for the pocket transport of anti-allergic medicines, with horizontally pivoted structures for the access to the contents of the separate divisions, shown in opening position in figure 2.

Figures 3 and 4 show an axonometric and transparent view the opening position of a variant of the device according to the present invention, with differentiated access structures.

Figures 5 and 6 show a variant with a container divided into sections accessible through one single panel.

Figure 7 shows a variant with four sections, also provided with a single container - beyond the ones listed in the preceding variants - for drinkable water, for possibly swallowing tablets, shown in detail in figure 8.

The enclosed figures show a multi-container device for the pocket transport of anti-allergic medicine, comprising a compact structure 1 divided in a plurality of sections:

- a space 2 for housing a nose spray S, protected by a proportioning device D for sterility and hygiene reasons, accessible through its own lid 3;
- a space 4 for the interchangeable eye drops bottle B, with a horizontally pivoted access structure 5;
- a horizontally pivoted space 6 for containing antihistaminic tablets, with a possible proportioning device 7;
- possible means for hooking said container 1 to the belt of the trousers or to the pocket of a shirt, a jacket or other;
- possible different colours for the different sections of said container 1, for a quick visual location of the content thereof.

In the variant of the device according to the present invention shown in figures 3, 4, all containing spaces are accessible through lids on fulcrum hinges 8, while in the

variant shown in figures 5, 6 the spaces are accessible through the sole and common lid 9.

The variant shown in figures 7, 8 shown, as mentioned, beyond the different spaces for said medicines, also a small container 10 with a means 11 for the outlet of drinkable water, that may be carried about for swallowing tablets or similar.

## CLAIMS

1. A multi-container device for the pocket transport of anti-allergic medicine, comprising a compact structure (1) divided in a plurality of sections:
  - a space (2) for housing a nose spray (S), protected by a proportioning device (D) for sterility and hygiene reasons, accessible through its own lid (3);
  - a space (4) for the interchangeable eye drops bottle (B), with a horizontally pivoted access structure (5);
  - a horizontally pivoted space (6) for containing antihistaminic tablets, with a possible proportioning device (7);
  - possible means for hooking said container (1) to the belt of the trousers or to the pocket of a shirt, a jacket or other;
  - possible different colours for the different sections of said container (1), for a quick visual location of the content thereof.
2. A device according to claim 1, characterized in lids on fulcrum hinges (8) for a quick visual location of the content.
3. A device according to claim 1, characterized in a sole common lid (9).

4. A device according to claim 1, characterized in the presence of a small container (10) with a means (11) for the outlet of drinkable water, that may be carried about for swallowing tablets or similar.



1/4

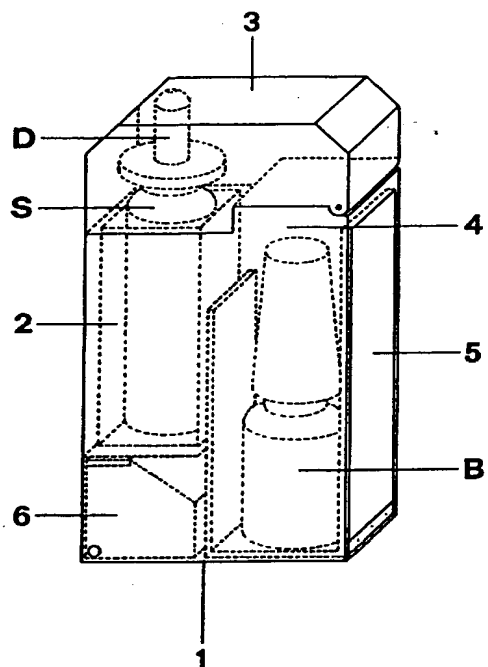


FIG. 1

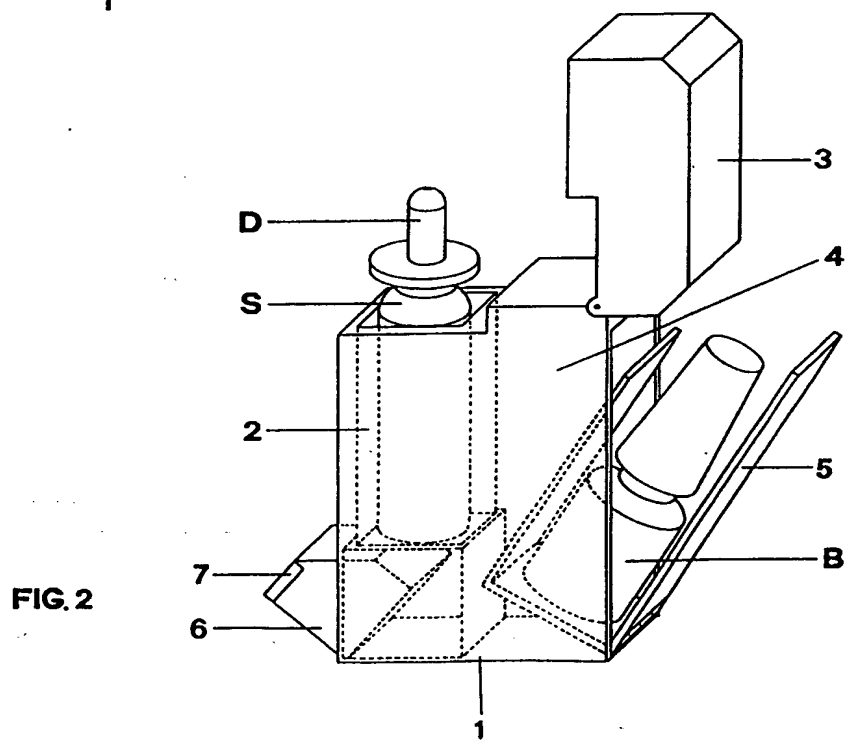


FIG. 2

2/4

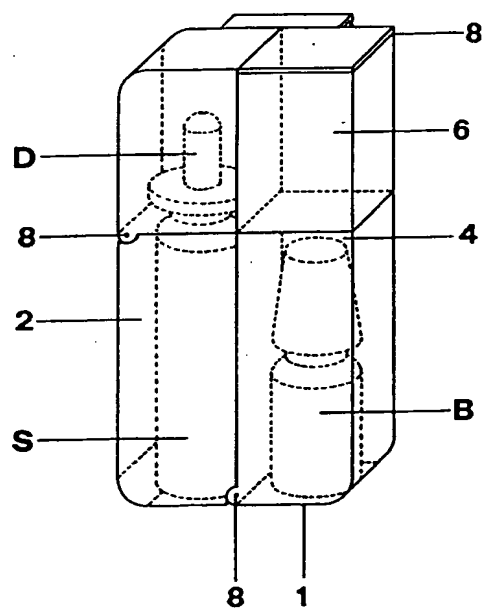


FIG. 3

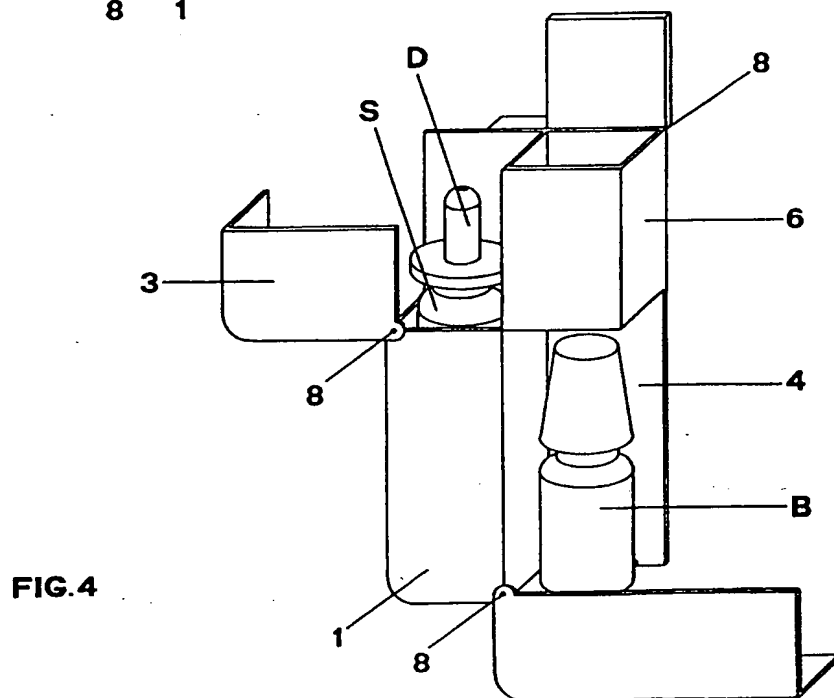


FIG. 4

3/4

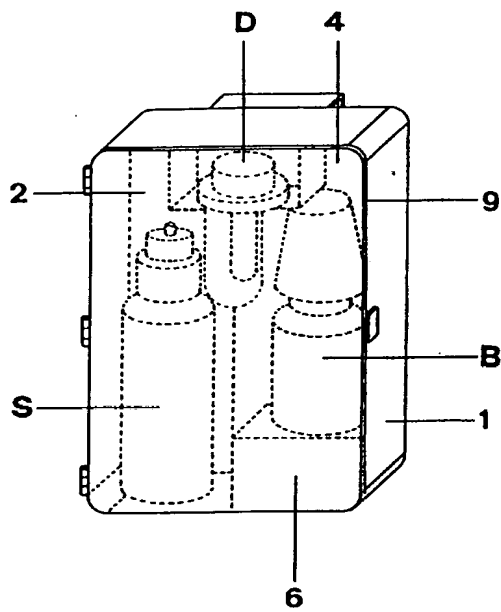


FIG. 5

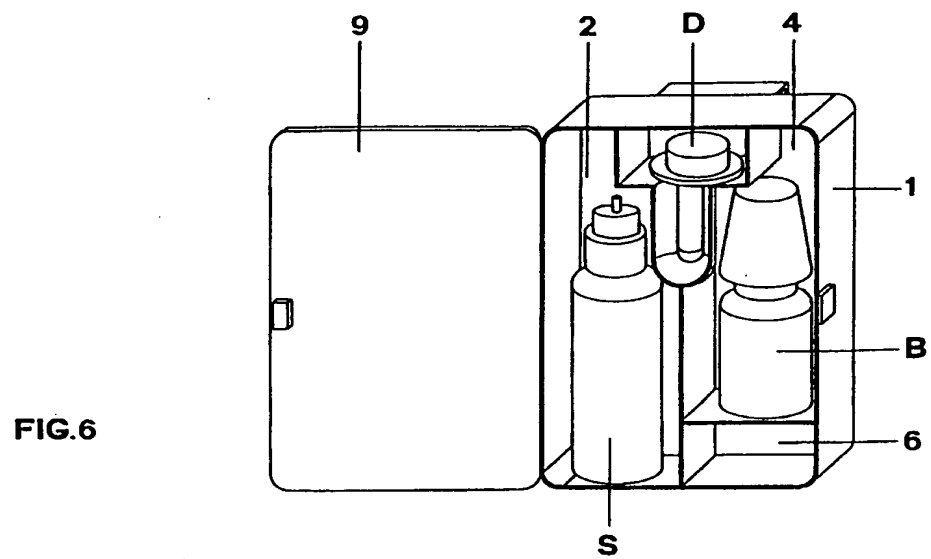


FIG. 6

4/4

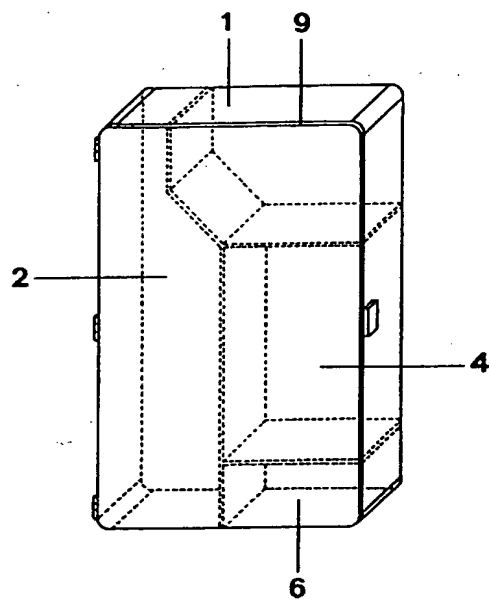


FIG. 7

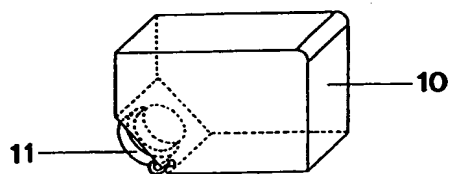


FIG. 8

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/IT 98/00072

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 A61J1/00 A45C11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 A61J A45C B65D A61B A45D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 92 13 830 U (SCHOLZ) 24 December 1992 see claim 1; figures	1
Y	US 5 611 447 A (WILLIAMS G. TYE) 18 March 1997 see the whole document	1
A	DE 91 07 020 U (SCHWARZ) 25 July 1991 see the whole document	1,4
A	US 4 518 092 A (CONTRERAS) 21 May 1985 see claims; figures	1
A	US 5 004 106 A (PROTECTION PROTECTION INC.) 2 April 1991 see column 4, line 25 - line 39 see column 6, line 4 - line 28; figures	2
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

3 August 1998

Date of mailing of the international search report

12/08/1998

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Baert, F

# INTERNATIONAL SEARCH REPORT

Int. Classification No.  
PCT/IT 00072

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 848 587 A (NIPP) 18 July 1989 see column 3, line 31 - line 48 -----	3

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/IT 98/00072

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 9213830 U	24-12-1992	NONE	
US 5611447 A	18-03-1997	NONE	
DE 9107020 U	25-07-1991	NONE	
US 4518092 A	21-05-1985	NONE	
US 5004106 A	02-04-1991	NONE	
US 4848587 A	18-07-1989	NONE	